

Title (en)  
Nitrogen containing dispersant-viscosity improvers

Title (de)  
Stickstoff-enthaltende dispergierende Viskositätsverbesserer

Title (fr)  
Additifs dispersants améliorant la viscosité

Publication  
**EP 0922713 A2 19990616 (EN)**

Application  
**EP 98309927 A 19981203**

Priority  
US 98430197 A 19971203

Abstract (en)  
A composition comprising a hydrocarbon polymer having Mn ranging from 20,000 to about 500,000, when the polymer is not a star polymer, and up to about GPC peak molecular weight of 4,000,000 when the polymer is a star polymer having attached thereto pendant groups Aa and Bb wherein each A is independently selected from members of the group consisting of: groups of the formula <CHEM> wherein R<3> is H or hydrocarbyl, R<4> is a divalent hydrocarbylene group, n = 0 or 1, and each of R<9> and R<10> is independently H, alkoxyhydrocarbyl, hydroxyhydrocarbyl, hydrocarbyl, aminohydrocarbyl, N-alkoxyalkyl- or hydroxyalkyl-substituted aminohydrocarbyl, or a group of the formula &lparstr Y &rparstr cR<11>-M, wherein each Y is independently a group of the formula <CHEM> each R<11> is a divalent hydrocarbyl group, R<12> is as defined above for R<9> and R<10>, and M is H, hydrocarbyl, amino, an amide group, an amide-containing group, an acylamino group, an imide group, or an imide-containing group, and c is 0 or a number ranging from 1 to about 100, or one of R<9> and R<10> taken together with the adjacent N constitute a N-N group; and each B is independently selected from members of the group of formula: <CHEM> wherein each X is independently O, S, or NR<b>, each R<b> is independently H, NH2, hydrocarbyl, hydroxy-hydrocarbyl or aminohydrocarbyl, and each Z is independently a group of the formula

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IPC 8 full level  
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